From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: JAMES A RETTER WARE, FRESSOLA, VAN DER SHUYS & ADOLPHSON LLP 755 MAIN STREET, P.O. BOX 224 MONROE, CONNECTICUT 06468

PCT

755 MAIN STREET, P.O. BOX 224 MONROE, CONNECTICUT 06468 WRITTEN OPINION		WRITTEN OPINION			
Morkoz, compensor voto		(PCT Rule 66)			
- 12		Date of Mailing (day/month/year)	21 JUL 2004		
Applicant's or agent's file reference		REPLY DUE			
944-4.14-1		within 2 months/days from the above date of mailing			
International application No. Int	ternational filing date	(day/month/year)	Priority date (day/month/year)		
PCT/IB03/04000 17	September 2003 (17.	09.2003)	27 September 2002 (27.09.2002)		
International Patent Classification (IPC) or b					
IPC(7): G06K 7/08, 5/00, 7/06; G06F 17/00, 7/00; G05B 19/00 and US Cl.: 235/451					
Applicant					
NOKIA CORPORATION	·-		"		
1. This written opinion is the <u>first</u>	(first, etc,) drawn by	this International Pro	eliminary Examining Authority.		
2. This opinion contains indications	relating to the follow	ing items:			
I Basis of the opinion					
II Priority					
III Non-establishment of	opinion with regard t	o novelty, inventive	step and industrial applicability		
IV Lack of unity of inver	•	· , , · . · . · . · · ·	,		
Reasoned statement under Rule 66.2 (a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement WARE, FRESSOLA, VAN DER SLUYS					
VI Certain documents cit	ted	•	& ADOLPHSON		
VII Certain defects in the	international applicat	ion	JUL 2 6 2004		
VIII Certain observations	on the international ap	oplication	FII = $\frac{GUU - (x)U \cdot 1U - 1}{GUU - (x)U \cdot 1U - 1}$		
3. The applicant is hereby invited t	to reply to this oninio	n.	AND VIEW TO		
When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request					
this Authority to grant an extension. See rule 66.2(d).					
How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.					
Also For an additional opportunity to submit amendments, see Rule 66.4. For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis. For an informal communication with the examiner, see Rule 66.6					
If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.					
4. The final date by which the inter	•	F			
examination report must be estab		tule 69.2 is: <u>27 Janua</u>	ary 2005 (27.01.2005)		
Name and mailing address of the IPEA/U	S	Authorized office			
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		1	Authorized officer Aumist Carter Steven S. Paik		
P.O. Box 1450		Steven S. Paik			
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Form PCT/IPEA/408 (cover sheet)(July 1998)



Internation	lication No.	
PCT/IB03/04	000	

I.	Basis	s of the opinion				
1.	With	regard to the elements of the international application:*				
	\boxtimes	the international application as originally filed				
	\boxtimes	the description:				
		pages 1-20 , as originally filed				
		pages NONE , filed with the demand , filed with the letter of .				
	_	pages NONE, filed with the letter of				
	\boxtimes	the claims:				
		pages 21-24 , as originally filed				
		pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand				
		pages NONE, filed with the letter of				
		the drawings:				
		pages 1-3 , as originally filed				
		pages NONE , filed with the demand				
		pages NONE , filed with the letter of				
		the sequence listing part of the description:				
		pages NONE , as originally filed				
		pages NONE , filed with the demand				
		pages NONE, filed with the letter of				
2.	lang	th regard to the language, all the elements marked above were available or furnished to this Authority in the uage in which the international application was filed, unless otherwise indicated under this item. se elements were available or furnished to this Authority in the following language English which is: the language of a translation furnished for the purposes of international search (under Rule23.1(b)).				
	\vdash	the language of publication of the international application (under Rule 48.3(b)).				
		the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).				
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the written opinion was drawn on the basis of the sequence listing:						
		contained in the international application in printed form.				
	filed together with the international application in computer readable form.					
	furnished subsequently to this Authority in written form.					
		furnished subsequently to this Authority in computer readable form.				
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.				
4.						
		the description, pages NONE				
		the claims, Nos. NONE				
		the drawings, sheets/fig NONE				
5.		This opinion has been drawn as if (some of) the amendments had not been made, since they have been considered to go				
	_	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
		acement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in nion as "originally filed."				
	•					



International application No. PCT/IB03/04000

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. STATEMENT	•			
Novelty (N)	Claims 4, 5, 11	YES		
	Claims 1-3, 6-10, 12-14	NO		
Inventive Step (IS)	Claims 4, 5, 11	YES		
	Claims 1-3, 6-10, 12-14	NO		
Industrial Applicability (IA)	Claims 1-14	YES		
	Claims NONE	NO		

2. CITATIONS AND EXPLANATIONS

Please See Continuation Sheet

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

TIME LIMIT:

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.

V. 2. Citations and Explanations:

Claims 1-3, 6-10, and 12-14 lack novelty under PCT Article 33(2) as being anticipated by Saitoh (US 5,929,414).

Re claim 1, Saitoh discloses a wireless terminal (71) having a terminal interface (64) characterized in that the wireless terminal (71) includes a smart card application host (IC card 50 or main controller 61) and also a smart card router (61), the smart card router (61) responsive to radio frequency (RF) communication signal (65a is a modem which provides modulating and demodulating functions) issuing from contactless smart card reader (65), for demodulating the RF communication signal (col. 2, II. 3-18)) and providing either a demodulated communication traffic signal routed to the smart card application host (34) or a demodulated communication traffic signal routed to the terminal interface (32), the routing determined based on information conveyed by the RF communication signal (RF in air). The main controller performs the functions of selecting the types of IC card (contact/contactless) and hosts and processes the selected type of IC card. Since the claimed smart card router may be interpreted as a switch selecting a type of IC card, the main controller of Saitoh reads on the claimed limitation.

Re claim 2, Saitoh discloses the wireless terminal as recited in rejected claim 1 stated above, wherein the smart card application host (IC card 50 or main controller 61) is selected from the group consisting of a contact smart card (contact/contactless IC card 50 in Fig. 1), a microcontroller (main controller 61) residing in the wireless terminal (71), and a security component of the wireless terminal.

Re claim 3, Saitoh discloses the wireless terminal as recited in rejected claim 1 stated above, further characterized in that the smart card router (61) is also responsive to unmodulated communication traffic (demodulated signal) provided by the smart card application host (IC card 50 or main controller 61) and is responsive to unmodulated communication traffic provided by the terminal interface (transceiver 65b), and in response to either provides modulated communication traffic signal (via modem 65a) for transmission the contactless smart card reader (65).

Re claim 6, Saitoh discloses the wireless terminal as recited in rejected claim 1 stated above, further characterized in that starting communications with the contactless smart card reader (65), the wireless terminal (71) reports RF parameter messages in a format understandable to (modulated signal) the contactless smart card reader so as to enable the communications.

Re claim 7, Saitoh discloses the wireless terminal as recited in rejected claim 6 stated above, wherein the RF parameters so reported indicate proprietary capabilities of the smart card application host (IC card 50 or main controller 61). The RF parameters are a modulated signal with a predetermined reading range. The parameters inherently are unique to each non-contact IC card and its applications. Hence, the parameters disclose proprietary capabilities of the smart card applications.

Re claim 8, Saitoh discloses the wireless terminal as recited in rejected claim 6 stated above, wherein the RF parameters are derived from data provided by an answer-to-reset message issued by the smart card application host (IC card 50 or main controller 61; col. 8, II. 37-40).

Re claim 9, Saitoh discloses a method for use by a wireless terminal (71) in communicating with a contactless smart card reader (65), the wireless terminal including a smart card application host (IC card 50 or main controller 61) hosting at least one smart card

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

application, the method characterized by: a step (S1) of receiving from the contactless smart card reader a radio frequency (RF) communication signal pertinent to the at least one smart card application; a step (S7) of examining the received communication signal to determine where to route including possibly routing the communication signal to the at least one smart card application or to a terminal interface (65b) of the wireless terminal or to an antenna (33c) for radiative transmission to a system (IC card 50 processing system) related to the at least one smart card application; and a step (S28) of routing the communication signal the destination so determined.

Re claim 10, Saitoh discloses the method as recited in rejected claim 9 stated above, wherein the smart card application host (IC card 50 or main controller 61) is selected from the group consisting of a contact smart card (IC card 50), a microcontroller (main controller 61) residing in the wireless terminal (71), and a security component of the wireless terminal.

Re claim 12, Saitoh discloses the method as recited in rejected claim 9 stated above, further characterized in that starting communications with the contactless smart card reader (65), the wireless terminal (71) reports RF parameter messages in a format understandable (modulated signal) to the contactless smart card reader so as to enable the communications.

Re claim 13, Saitoh discloses the method as recited in rejected claim 12 stated above, wherein the RF parameter so reported indicate proprietary capabilities of the smart card application host (IC card 50 or main controller 61). The RF parameters are a modulated signal with a predetermined reading range. The parameters inherently are unique to each non-contact IC card and its applications. Hence, the parameters disclose proprietary capabilities of the smart card applications.

Re claim 14, Saitoh discloses the wireless terminal as recited in rejected claim 12 stated above, wherein the RF parameters are derived from data provided by an answer-to-reset message issued by the smart card application host (IC card 50 or main controller 61; col. 8, II. 37-40).

Claims 4, 5, and 11 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the claimed wireless terminal comprising, among other things, a card access module and router, a modulator/demodulator, an RF antenna, and a card reader chip in which the card access module and router is coupled to the smart card application host via the card reader chip and is coupled to the terminal interface and is also coupled to the RF antenna via the modulator/demodulator, the RF antenna in turn being radiatively coupled to a ticketing system. Accordingly, one of ordinary skill in the art would not have been motivated to modify teachings of prior art to meet the claimed limitations as set forth in the present claimed invention.

Claims 1-14 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.